

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER</b> 2771-682 US <b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b> Not Yet Known <b>10/575556</b>
<b>INTERNATIONAL APPLICATION NO.</b> PCT/US2004/033915	<b>INTERNATIONAL FILING DATE</b> 14 October 2004	<b>PRIORITY DATE CLAIMED</b> 14 October 2003
<b>TITLE OF INVENTION: HYDROGEN GENERATION</b>		
<b>APPLICANT(S) FOR DO/EO/US: J. Donald Carruthers, Jose I. Arno</b>		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau). **International Publication No. WO 2005/037421 as published on April 28, 2005**
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 3/31/2007. OMB 0651-0021

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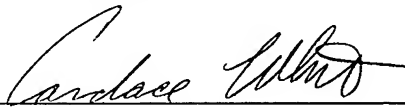
Form PTO-1390 (REV. 07-2005)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>In re United States Patent Application of:</b>		)	
		)	
<b>Applicant(s):</b>	<b>Carruthers, et al.</b>	)	<b>Docket No.:</b> 2771-682 US
		)	
<b>Application No.:</b>	<b>New U.S. National Stage Application of PCT International Application No. PCT/US2004/033915</b>	)	<b>Examiner:</b> Not Yet Assigned
		)	
<b>Int'l Filing Date:</b>	<b>14 October 2004</b>	)	<b>Art Unit:</b> Not Yet Assigned
		)	
<b>Priority Date:</b>	<b>14 October 2003 (U.S. Provisional Patent Application No. 60/510,983)</b>	)	
		)	
<b>Title:</b>	<b>HYDROGEN GENERATION</b>	)	<b>Customer No.:</b> 23448
		)	

**EXPRESS MAIL CERTIFICATE**

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop: PCT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.



Candace White

April 10, 2006

Date

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**SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION  
(NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO.  
PCT/US2004/033915 AND CLAIMING PRIORITY OF U. S. PROVISIONAL PATENT  
APPLICATION NO. 60/510,983**

Mail Stop: PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/US2004/033915 and claiming priority of U.S. Provisional Patent Application No. 60/510,983. A copy of International Publication No. WO 2005/037421 as published on April 28, 2005 is also included. Further included

10/575556

IAP15 Rec'd PCT/PTO 10 APR 2006

is a copy of the signed PCT Power of Attorney documents, a return postcard, and a credit card form in the amount of \$3,850.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,



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